

Joel Reyes-Cabrera, Ph.D.

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College of Agriculture and Natural Resources
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Primary Interests and Background

I am interested in plant physiology at the whole-plant and crop levels. Implementation of best management practices that i) provide positive returns on investment, ii) increase ecosystem services, and iii) enhance resilience to a changing climate. I have dedicated the past 16 years of my career working closely with producers in multiple countries and crops.

Professional experience

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| January 2022 – present | Assistant Professor of Horticulture Texas A&M University-Kingsville Citrus Center |
| February 2020 – December 2021 | Agronomic consultant Managua, Nicaragua |
| August 2019 – February 2020 | Assistant Professor of Agricultural Sciences, Eastern New Mexico University |
| July 2017 – July 2019 | Postdoctoral Fellow, University of Missouri |
| February – July 2017 | Postdoctoral Research Associate, University of Florida |
| 2010 | Research Assistant EARTH University, Guacimo, Costa Rica |

Education

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| 2013-2017 | Ph.D. in Agronomy University of Florida, Gainesville, FL |
| 2011-2013 | M.S. in Horticultural Sciences University of Florida, Gainesville, FL |
| 2006-2009 | B.S. in Agricultural Sciences EARTH University, Guacimo, Costa Rica |

Funded Grants

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| “Biochar, an opportunity to increase soil water storage in Citrus Orchards” (PI, \$55,865). Texas Water Development Board. | 2022 |
| “Connecting the Dots in the Global Fresh Produce Market” (CO-Pi, \$270,096). USDA-HSI. | 2022 |

Awards and Scholarships

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| Travel grant from MU Postdoctoral Association (\$300) | 2019 |
| Third place poster competition Bioenergy Session / ASA (\$150) | 2016 |
| Linton E. Grinter Award Recipient (\$2,500) | 2013 |

EARTH University Honors College Outstanding Junior 2008
Norwegian Agency for Development Cooperation (NORAD) Scholarship Recipient 2006

Peer-reviewed publications (Last 2, Total: 14)

2. **Reyes-Cabrera, J.**, R.G. Leon, and J.E. Erickson. 2021. Biochar affects soil water content of field soybean in the southeastern U.S. *Agrosyst. Geosci. Environ.* e20197.
1. **Reyes-Cabrera, J.**, J.E. Erickson, R.G. Leon, D.G. de Quadros, M.L. Silveira, and L.E. Sollenberger. 2020. Bahiagrass pasture and elephantgrass bioenergy cropping systems differ in root traits. *Agron. J.* 112, 4810-4821.

Abstracts and Presentations (Last 2, Total: 23)

2. Ruiz, J.F., A. Zare, F.B. Fritschi, F. Torralbo, **J. Reyes-Cabrera**, and Y. Cui. Imaging plant roots in soil using X-ray computed tomography. IS&T International Symposium on Electronic Imaging 2020.
1. Harris, B., **J. Reyes-Cabrera**, and F. Fritschi. Root anatomical characteristics of a segregating switchgrass population. Undergraduate Research & Creative Achievements Forum. University of Missouri. Columbia, Missouri, 2019.

Teaching experience

Fall 2022: Instructor of Advanced Crop Physiology. Texas A&M University – Kingsville, TX

2019: Instructor of Soil Sciences and Principles of Horticulture at Eastern New Mexico University, Portales, NM.

2019: Guest lecturer, Soil resources and fertility; and Bioenergy crops at the Division of Plant Sciences, University of Missouri-Columbia, MO.

2016: Teaching assistant, Environmental Crop Nutrition, Agronomy Department, University of Florida, Gainesville, FL.

2015: Teaching assistant, Genetics and Growing fruit for fun and profit, Agronomy and Horticultural Sciences Departments, Gainesville, FL.

Mentoring

2019 **Bacari J. Harris** (Undergraduate), *University of Missouri*. Undergraduate Research Experience for Undergraduates

2019 **Isaac Quevedo** (Undergraduate) *University of Missouri*. Undergraduate Research Experience for Undergraduates

2018 **Claire M. Gagliano** (Undergraduate), *University of Missouri*
Provided primary guidance during a 4 month research assistantship

2018 **Christian Polovich** (Undergraduate), *University of Missouri*
Provided primary guidance during a 4 month research assistantship